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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/614,879	07/07/2003		Jiangen Cao	ARC-P120	8928	
32566	7590	06/03/2005		EXAM	EXAMINER	
PATENT L	AW GR	OUP LLP	JANKUS,	JANKUS, ALMIS R		
2635 NORT SUITE 223	H FIRST	STREET	ART UNIT	PAPER NUMBER		
	SAN JOSE, CA 95134			2672		
				DATE MAIL ED: 06/02/200	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

	A	A 13 44 1					
	Application No.	Applicant(s)					
Office Action Cummons	10/614,879	CAO, JIANGEN					
Office Action Summary	Examiner	Art Unit					
	Almis R. Jankus	2671 ·					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONEE	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on <u>07 Ju</u>	iv 2003.						
·	action is non-final.	•					
· <u>-</u>							
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
<u> </u>							
	✓ Claim(s) <u>1-15</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.						
7) Claim(s) is/are rejected.							
·	☐ Claim(s) is/are objected to. ☐ Claim(s) <u>1-15</u> are subject to restriction and/or election requirement.						
	·						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>07 July 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	ate atent Application (PTO-152)						
Paper No(s)/Mail Date	6) Other:	(' ' ' ' - ' - ' - ' - ' -					

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Art Unit: 2671

DETAILED ACTION

1. The drawings are objected to because partial views Fig. 6 and Fig. 6A intended to form one complete view on one sheet are not identified by the same number followed by a capital letter (see 37 CFR 1.84(u)(1)). An example of correctly identified views is Fig. 6A and Fig. 6B. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

3. The abstract of the disclosure is objected to because it is essentially a repeat of claim 1 and not in narrative form and does not describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details. Correction is required. See MPEP § 608.01(b).

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Election/Restrictions

4. Restriction to one of the following inventions is required under 35 U.S.C.121:

- Claims 1-14, drawn to A method for determining a projected area of an edge in a pixel, classified in class 345, subclass 613.
- II. Claim 15, drawn to A method for rendering a graphic file, classified in class 345, subclass 441.

The inventions are distinct, each from the other because of the following reasons: Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the claimed "method for approximating a curved edge with a plurality of first straight edges, said approximating comprising dividing a curved edge into a first curved edge and a second curved edge; determining if a flatness of a first straight edge between a first anchor point and a second anchor point of the second curved edge is less than a threshold; if the flatness is less than the threshold: replacing the second curved edge with the first straight edge; repeating above steps by setting the first curved edge as the curved edge; if the flatness is greater

than the threshold, repeating the above steps by setting the second curved edge as the curved edge" is a piecewise linear curve approximation involving plural pixels. The subcombination has separate utility such as determining the color of a single pixel using, for example, the A-Buffer algorithm which determines the pixel's aggregate color from polygon fragments which intersect the pixel. The coverage of the polygon fragments within the single pixel is determined using sub-pixels. Therefore, the inventions are distinct, each from the other.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Almis R. Jankus whose telephone number is 571-272-7643. The examiner can normally be reached on M-F, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on 571-272-7664.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AJ

ALMIS A JANKUS